

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference P14739-OZI		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)	
International application No. PCT/EP 03/05016	International filing date (day/month/year) 14.05.2003	Priority date (day/month/year) 22.06.2002	
International Patent Classification (IPC) or both national classification and IPC H04L29/06			
Applicant TELEFONAKTIEBOLAGET LM ERICSSON (publ) et al.			

- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 5 sheets, including this cover sheet.
 - ☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 2 sheets.

- This report contains indications relating to the following items:
 - I ☒ Basis of the opinion
 - II ☐ Priority
 - III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - IV ☐ Lack of unity of invention
 - V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - VI ☐ Certain documents cited
 - VII ☐ Certain defects in the international application
 - VIII ☐ Certain observations on the international application

Date of submission of the demand 16.01.2004	Date of completion of this report 06.07.2004
Name and mailing address of the International preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized Officer Kesting, V Telephone No. +31 70 340-2741



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International application No. PCT/EP 03/05016

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17))*):

Description, Pages

1-7 as originally filed

Claims, Numbers

1-4 received on 26.06.2004 with letter of 24.06.2004

Drawings, Sheets

1/2-2/2 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☒ the claims, Nos.: 5-14
- ☐ the drawings, sheets:

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5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-4
	No: Claims	
Inventive step (IS)	Yes: Claims	1-4
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-4
	No: Claims	

2. Citations and explanations

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. **Claim 1** meets the requirements of novelty and inventive step, Art. 33(2) and (3) PCT.
 - 1.1 Closest prior art **D2 = US-A-6 157 917** discloses a method including
 - storing a cookie for a first web server ("first acquirer" in D2) wherein the cookie is related to a client and comprises the address ("identification of the second acquirer") of a second web server ("second acquirer")
 - inserting the cookie into a message addressed to a first web server
 - forwarding the message to the first web server
 - 1.2 The main difference between the subject-matter of claim 2 and this known method is that the cookie is sent to the cookie storage in a session according to a hypertext transfer protocol by the second web server.
- Further differences are that the steps are performed by a proxy server that prior to the insertion receives the message, ie the cookie storage location is at a proxy server; and that the address is a network address.
- 1.3 The objective technical problem corresponding to the main difference is how to allow the entity maintaining the second server to better control the delivery of the second server's address.

D1 does not mention the problem nor does it disclose or hint at its solution, as defined by the main difference feature mentioned under 1.2. Instead, D2 leads away by suggesting to have this address sent to the cookie storage by the first server, thereby depriving the second server of a direct control (cf. D2, col. 5, lines 10 - 11 and col. 6, lines 61 - 64).

Also the remaining available prior art relating to making an address of a second server available to a first server by means of a cookie stored at a different location (D1 = MET: 'MeT Authorization for account based payment using a SET Wallet Server' MET (MOBILE ELECTRONIC TRANSACTIONS) STANDARD) is silent as how the second server's address is delivered to the cookie storage.

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2. **Claims 3 and 4** correspond to method claim 1 in terms of a proxy server and a program unit; **claim 2** is truly dependent on claim 1. Consequently, claims 2 - 4 are based on the same inventive concept as claim 1 and therefore also meet the requirements of novelty and inventive step.
3. It should be noted that **claim 3** lacks clarity, Art. 6 PCT. Claim 3 is directed to a proxy server adapted to perform the method of claim 1. However, following the current wording of claim 1, one of the steps is that "the cookie is sent to the proxy server in a session [...] by the second web server" which is a step carried out by the second web server and not by the proxy server, and is therefore not clearly limiting the scope of protection for the proxy server to which the claim is directed. For the above assessment of novelty and inventive step, this step has been interpreted as a step in which the proxy server receives the cookie sent by the second web server. The same observation is made with respect to **claim 4**.

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Claims

1. Method for providing access to information related to a client (C; C2) to a first web
5 server (WS1; WS12), the information being stored by a second web server (WS2;
WS22), wherein the first web server (WS1; WS12) is connected to the client (C; C2)
via a proxy server (PS; PS2), and wherein the following steps are performed by the
proxy server (PS; PS2):
 - storing a cookie for the first web server (WS1; WS12), wherein the cookie is related to
10 the client (C; C2) and comprises a network address of the second web server (WS2;
WS22),
 - receiving a message (1; 12) that is addressed to the first web server (WS1; WS12),
 - inserting the cookie into the message (1; 12), and
 - forwarding the message (1; 12) to the first web server (WS1; WS12), wherein the
15 cookie is sent to the proxy server (PS; PS2) in a session according to a hypertext
transfer protocol by the second web server (WS2; WS22).
2. Method according to claim 1 , wherein the client (C; C2) is a mobile terminal, the proxy
server (PS; PS2) is at least one of a wireless application protocol gateway or a hypertext
20 transfer protocol proxy server, and wherein the connection of the client (C; C2) to the
first web server (WS1; WS12) comprises a first connection between the client (C; C2)
and the proxy server (PS; PS2) according to a wireless application protocol or a
hypertext transfer protocol and a second connection between the proxy server (PS; PS2)
and the first web server (WS1; WS12) according to a hypertext transfer protocol.
3. Proxy server (PS; PS2) for a communication network, wherein the proxy server (PS;
25 PS2) comprises a memory for storing a cookie, interfaces for sending and receiving
messages, characterized by a processing system that that is adapted to perform the
method according to any of the claims 1 or 2.

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4. Program unit loadable into a proxy server (PS; PS2) in a communication network, wherein the program unit comprises code adapted to store a cookie for a first web server (WS1; WS12), wherein the cookie is related to the client (C; C2) and comprises a network address of a second web server (WS2; WS22), wherein the program unit is adapted to process messages, said messages comprising a message (1; 12) for the first web server (WS1; WS12) from the client (C; C2) and wherein the program unit comprises code adapted to insert the cookie into the message (1; 12) and to forward the message (1; 12) towards the first web server (WS1; WS12), and wherein the cookie is sent to the proxy server (PS; PS2) in a session according to a hypertext transfer protocol by the second web server (WS2; WS22).

Claims

1. Method for providing information related to a client (C; C2) to a first web server (WS1; WS12), wherein a second web server (WS2; WS22) stores the information related to the client (C; C2), and the first web server (WS1; WS12) is connected to the client (C; C2) via a proxy server (PS; PS2), the method comprising the steps of:
- storing a cookie for the first web server (WS1; WS12) in the proxy server (PS; PS2), the cookie being related to the client (C; C2) and the cookie comprising a network address of the second web server (WS2; WS22),
 - sending a message (1; 12) towards the first web server (WS1; WS12) via the proxy server (PS; PS2),
 - receiving the message (1; 12) in the proxy server (PS; PS2),
 - inserting the cookie into the message (1; 12),
 - forwarding the message (1; 12) to the first web server (WS1; WS12),
 - receiving the message (1; 12) in the first web server (WS1; WS12),
 - retrieving the network address of the second web server (WS2; WS22) from the cookie,
 - requesting (2; 22) from the second web server (WS2; WS22) the information related to the client (C; C2),
 - receiving in the second web server (WS2; WS22) the request (2; 22) for information related to the client (C; C2), and
 - sending (3; 32) information related to the client (C; C2) to the first web server (WS1; WS12).
2. Method for providing information related to a client (C; C2) to a first web server (WS1; WS12), the information being stored by a second web server (WS2; WS22), wherein the first web server (WS1; WS12) is connected to the client (C; C2) via a proxy server (PS; PS2), and wherein the following steps are performed by the proxy server (PS;

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PS2):

- storing a cookie for the first web server (WS1; WS12), wherein the cookie is related to the client (C; C2) and comprises a network address of the second web server (WS2; WS22),
 - 5 - receiving a message (1; 12) that is addressed to the first web server (WS1; WS12),
 - inserting the cookie into the message (1; 12), and
 - forwarding the message (1; 12) to the first web server (WS1; WS12).
3. Method according to claim 2, wherein the client (C; C2) is a mobile terminal, the proxy server (PS; PS2) is at least one of a wireless application protocol gateway or a hypertext
- 10 transfer protocol proxy server, and wherein the connection of the client (C; C2) to the first web server (WS1; WS12) comprises a first connection between the client (C; C2) and the proxy server (PS; PS2) according to a wireless application protocol or a hypertext transfer protocol and a second connection between the proxy server (PS; PS2) and the first web server (WS1; WS12) according to a hypertext transfer protocol.
- 15 4. Method according to claim 2 or 3, wherein the cookie is sent to the proxy server (PS; PS2) in a session according to a hypertext transfer protocol by the second web server (WS2; WS22).
5. Method for requesting by a first a web server (WS1; WS 12) information related to a client (C; C2) from a second web server (WS2; WS22) holding the information related
- 20 to the client (C; C2), the method comprising the following steps:
- receiving a message (1; 12) with a cookie comprising a network address of the second web server (WS2; WS22) from a proxy server (PS; PS2),
 - retrieving the network address of the second web server (WS2; WS22) from the cookie,
 - 25 - requesting (2; 22) from the second web server (WS2; WS22) the information related to the client (C; C2).

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6. Method according to claim 5, wherein the request (22) to the second web server (WS22) is sent via the client (C2).
7. Method according to claim 5 or 6, wherein the first web server (WS1; WS12) receives the information related to the client (C; C2).
- 5 8. Method according to claim 7, wherein the information related to the client (C; C2) authenticates the client (C; C2) towards the web server.
9. Method according to claims 7 or 8, wherein the information related to the client (C; C2) authorizes the client (C; C2) towards the web server.
- 10 10. Method according to any of the claims 5 to 9, wherein the second web server (WS2; WS22) is at least one of a payment server, an electronic mail server, an authentication server, or a ticketing server.
11. Proxy server (PS; PS2) for a communication network, wherein the proxy server (PS; PS2) comprises a memory for storing a cookie, interfaces for sending and receiving messages, characterized by a processing system that that is adapted to perform the
15 method according to any of the claims 2 to 4.
12. Program unit loadable into a proxy server (PS; PS2) in a communication network, wherein the program unit comprises code adapted to store a cookie for a first web server (WS1; WS12), wherein the cookie is related to the client (C; C2) and comprises a network address of a second web server (WS2; WS22), wherein the program unit is
20 adapted to process messages, said messages comprising a message (1; 12) for the first web server (WS1; WS12) from the client (C; C2) and wherein the program unit comprises code adapted to insert the cookie into the message (1; 12) and to forward the message (1; 12) towards the first web server (WS1; WS12).

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13. Web server in a communication network, comprising interfaces for sending and receiving messages and a processing system that is adapted to retrieve an address of a second web server (WS2; WS22) from a cookie and to send a request for information related to a client (C; C2) towards the second web server (WS2; WS22).
- 5 14. Program unit loadable into a web server in a communication network, wherein the program unit comprises code adapted to process messages, said messages comprising a message (1; 12) from a proxy server (PS; PS2) and a request (2; 22) towards a second web server (WS2; WS22), wherein the message (1; 12) from the proxy server (PS; PS2) comprises a cookie with a network address of the second web server (WS2; WS22), the
- 10 request (2; 22) towards the second web server (WS2; WS22) demands information related to the client (C; C2), and wherein the program unit comprises code adapted to retrieve the network address of the second web server (WS2; WS22) from the cookie, and to send the request (2; 22) for information related to the client (C; C2) towards the second web server (WS2; WS22).

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